Contains Ouplicate Given: integer array nums Return: true if duplicate found, else false Time & Space: O(n) To maintain time O(n), we must only pass an element once each. In order to check if a previous integer has already been seen, we must store all unique elements, which is why we need O(n) space. We can iterate the input vector, storing each unique integer in an unordered_set.

If we encounter an integer already seen,
we will return true if we finish
n items, we return false.